## UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. YOR920030499US1 (17075)

Total Pages in this Submission

4

### TO THE COMMISSIONER FOR PATENTS

Mail Stop Patent Application P.O. Box 1450 Alexandria, VA 22313-1450

						Alexandria	, VA 22313-1450			0/6
Alexandria, VA 22313-1450  Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for annivention entitled:  METHOD AND SYSTEM FOR IMPROVING ION BEAM ALIGNMENT FOR LIQUID CRYSTAL DISPLAYS BY A GROOVING UNDER LAYER  and invented by:  Minhua Lu  Kei-Hsiung Yang  If a CONTINUATION APPLICATION, check appropriate box and supply the requisite information:										
ME	тно	D AN	D SYST	EM FOR IMI	ROV	ING ION BE	AM ALIGNME	T FOR LIQUID CR	YSTAL DISPLAYS	BY
AC	3KU(	) V I N (	G UNDE	K LAYER						
and in	vente	d by:								
			ang							
If a C	ONT	NUA	TION AF	PPLICATION,	check	k appropriate	box and supply	the requisite informa	ntion:	
	Conti							of prior application		
Which	h is a	:								
	Conti		on 🗆	Divisional		Continuation	on-in-part (CIP)	of prior application	No.:	
Which	nısa Cınti		on 🗆	Divisional		Continuation			A1.	
			<b></b> _	Divisional		Continuation	m-m-part (CIP)	of prior application	No.:	
Enclo	sed a	ire:				Applicat	tion Elements			
1.	×	Filin	a fee as	calculated an	d tran					
••	23	1 11111	y ice as	calculated and	Juan	siiilled as d	escribed below			
2.	X	Spec	cification	having		13	pages and	ncluding the following	g:	
	a.	X	Descrip	tive Title of the	e Inve	ention				
	b.		Cross F	References to	Relate	ed Applicatio	ns (if applicable)			
	C.		Stateme	ent Regarding	Fede	erally-sponso	red Research/De	velopment (if application	able)	
	d.							Program Listing App	,	
	e.	X		ound of the In			·	0		
	f.	X	Brief Su	ummary of the	Inver	ntion				
	g.	X	Brief De	escription of th	e Dra	wings (if filed	d)			
	h.	X	Detailed	d Description			•			
	i.	X	Claim(s	s) as Classified	l Belo	w				
	j.	×	Abstrac	ct of the Disclo	sure					

# UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. YOR920030499US1 (17075)

Total Pages in this Submission

#### **Application Elements (Continued)**

3.	X	Dra	wing(s) <i>(wh</i>	en nec	essary as prescribed by 35 USC 113)	
	a.	X	Formal		Number of Sheets 2	
	b.		Informal		Number of Sheets	
4.	X	Oat	h or Declara	ation		
	a.	X	Newly exe	cuted (	original or copy)   Unexecuted	
	b.		Copy from	a prior	application (37 CFR 1.63(d)) (for continuation/divisional application only)	
	¢.	X	With Powe	er of Att	orney   Without Power of Attorney	
	d.		Signed sta	tement	I <u>VENTOR(S)</u> attached deleting inventor(s) named in the prior application, 3(d)(2) and 1.33(b).	
5.		The Box	entire discl	osure o	ence (usable if Box 4b is checked)  If the prior application, from which a copy of the oath or declaration is supplied under  I as being part of the disclosure of the accompanying application and is hereby  I accompanying application and is hereby  I accompanying application and is hereby	r ⁄
6.		CD	ROM or CD	P-R in d	uplicate, large table or Computer Program (Appendix)	
7.		App	lication Dat	a Shee	(See 37 CFR 1.76)	
8.		Nuc	leotide and	or Ami	no Acid Sequence Submission (if applicable, all must be included)	
	a.		Computer	Readal	ole Form (CRF)	
	b.		Specificati	on Seq	uence Listing on:	
			i. 🗆 C	D-ROM	or CD-R (2 copies); or	
			ii. 🔲 P	aper		
	C.		Statement	(s) Veri	fying Identical Paper and Computer Readable Copy	
					Accompanying Application Parts	
9.	X	Ass	ignment Pa	pers (c	over sheet & document(s))	
10.		37 (	CFR 3.73(B	) Stater	nent (when there is an assignee)	
11.		Eng	lish Transla	ation Do	cument (if applicable)	
12.	X	Info	rmation Dis	closure	Statement/PTO-1449	
13.		Pre	liminary Am	endme	nt	
14.	X	Ret	urn Receipt	Postca	rd (MPEP 503) (Should be specifically itemized)	
15.		Cer	tified Copy	of Prior	ty Document(s) (if foreign priority is claimed)	
16.	X	Cer	tificate of M	ailing		
			First Class		Express Mail (Specify Label No.): EV 247990189 US	

# UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. YOR920030499US1 (17075)

Total Pages in this Submission

		Accompanying Application Parts (Continued)
17. (	X	Additional Enclosures (please identify below):
		ASSIGNEE NAME: INTERNATIONAL BUSINESS MACHINES CORPORATION ASSIGNEE RESIDENCE: ARMONK, NEW YORK
		Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)
18. [		Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.
		Warning
		An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.

## UTILITY PATENT APPLICATION TRANSMITTAL (Larg Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. YOR920030499US1 (17075)

Total Pages in this Submission 4

[19] Correspondence Address Customer No. 23389

#### **Fee Calculation and Transmittal**

		CLAIMS	AS FILED			
For	#Filed	#Allowed	#Extra		Rate	Fee
otal Claims	17	- 20 =	0	x	\$18.00	\$0.00
ndep. Claims	2	- 3 =	0	x	\$86.00	\$0.00
Multiple Dependent Cla	aims (check	if applicable)				\$0.00
					BASIC FEE	\$770.00
OTHER FEE (specify	purpose)					\$0.00
					TOTAL FILING FEE	\$770.00
A check in the amore The Director is here as described below	eby authorize	d to charge and c				BM
<ul> <li>☑ The Director is here as described below</li> <li>☑ Charge the</li> <li>☑ Credit any one</li> <li>☑ Charge any</li> <li>☐ Charge the</li> </ul>	eby authorize  amount of  overpayment  additional file	\$770.00 \$770.eo ing fees required t in 37 C.F.R. 1.1	as filing fee. under 37 C.I at the maili	Account F.R. 1.16 ng of the	and 1.17. Notice of Allowance,  Signature	BM
<ul> <li>☑ The Director is here as described below</li> <li>☑ Charge the</li> <li>☑ Credit any one</li> <li>☑ Charge any</li> <li>☐ Charge the</li> </ul>	eby authorized amount of overpayment y additional filed issue fee seed 37 C.F.R. 1.	\$770.00 \$770.eo ing fees required t in 37 C.F.R. 1.1	as filing fee. under 37 C.I 8 at the maili	Account  F.R. 1.16  Ing of the	and 1.17. Notice of Allowance,  Signature	BM

CERTIFICATE OF M Applicant(s): Minhua Lu,		ESS MAIL" (37 CFR 1.10)	Docket No. YOR920030499US1 (17075)
Serial No. Unassigned	Filing Date  Herewith	Examiner Unassigned	Group Art Unit Unassigned
	D SYSTEM FOR IMPRO A GROOVING UNDER	OVING ION BEAM ALIGNMENT F R LAYER	FOR LIQUID CRYSTAL
I hereby certify that this	New Utility Patent App	lication (Identify type of correspondence)	
is being deposited with	the United States Postal	Service "Express Mail Post Office	to Addressee" service under
37 CFR 1.10 in an enve	lope addressed to: Direc	tor of the United States Patent and	Trademark Office, P.O. Box
1450, Alexandria, VA 22	2313-1450 on	October 30, 2003 (Date)	
		Steven Fisc	shman
		(Typed or Printed Name of Person	
		At 2	7
		(Signature of Person Mailin	og Correspondence)
		EV 2479901	190 110
		("Express Mail" Mailing	
			•
	Note: Each paper n	nust have its own certificate of mailing.	